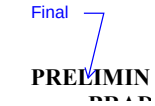
ENG-MS21002-R1-FDR.pdf Markup Summary

1 (7)



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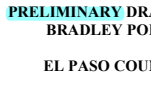
Final



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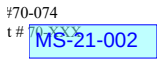
PRELIMINARY



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MS-21-002

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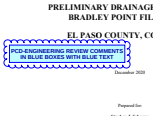

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Subject: Text Box
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Date: 4/2/2021 2:19:32 PM
Author: dsdrice
Color:
Layer:
Space:
Page Label: 1

See comment memo also.

Subject: Stormwater Comments Color
Page Index: 1
Date: 4/6/2021 4:22:37 PM
Author: CFurchak
Color:
Layer:
Space:
Page Label: 1

4 (3)

Subject:
Page Index: 4
Date: 4/2/2021 2:20:33 PM
Author: dsdrice
Color:
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Space:
Page Label: 4

e Preliminary

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Date: 4/2/2021 2:20:45 PM
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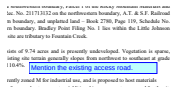
Final



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Page Index: 4
Date: 4/2/2021 4:09:24 PM
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Page Label: 4

Mention the existing access road.

6 (6)

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Date: 4/5/2021 8:22:42 AM
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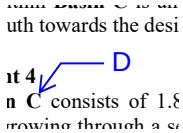
C



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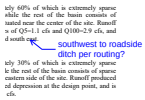
D



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southwest to roadside ditch per routing?

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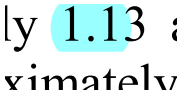
Page Label: 6

0.54



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1.1

Subject:
Page Index: 6
Date: 4/5/2021 8:29:12 AM
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Page Label: 6

asin
E

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7 (4)

Subject: Highlight
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Page Label: 7

Subject: Callout
Page Index: 7
Date: 4/5/2021 8:35:56 AM
Author: dsdrice
Color:
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This appears to be a changed condition to a point discharge. See comment memo.

Subject: Callout
Page Index: 7
Date: 4/5/2021 8:39:44 AM
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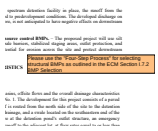
Color:
Layer:
Space:
Page Label: 7

The grading plan shows regrading - will this just be gravel?



Subject: Engineer
Page Index: 7
Date: 4/6/2021 4:22:28 PM
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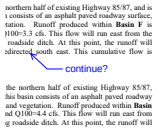
Page Label: 7

Please use the "Four-Step Process" for selecting structural BMPs as outlined in the ECM Section I.7.2 BMP Selection

8 (9)



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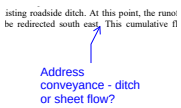
Page Label: 8

continue?



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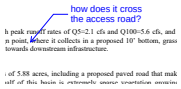
Address conveyance - ditch or sheet flow?



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how does it cross the access road?

Subject:
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Date: 4/5/2021 8:40:54 AM
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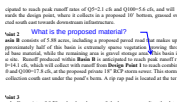
20%



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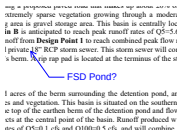
What is the proposed material?



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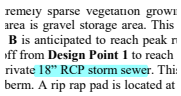
FSD Pond?



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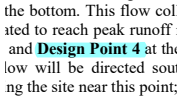
18” RCP storm sewe



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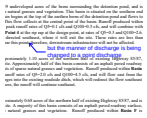
Design Point 4



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but the manner of discharge is being changed to a point discharge

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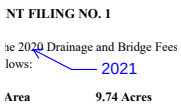
9 (4)



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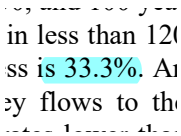
2021



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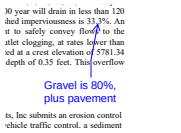
s 33.3%



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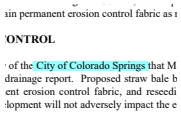
Gravel is 80%, plus pavement



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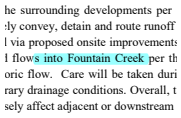
City of Colorado Springs

10 (7)



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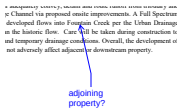
s into Fountain Creek



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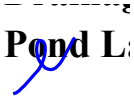
adjoining property?



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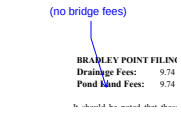

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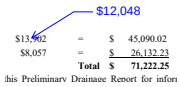
(no bridge fees)



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$12,048

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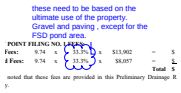

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Date: 4/5/2021 11:31:54 AM
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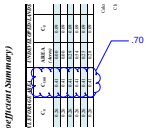
these need to be based on the ultimate use of the property. Gravel and paving , except for the FSD pond area.

35 (8)



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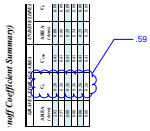

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.59

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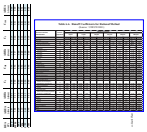

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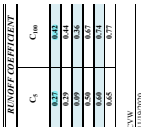

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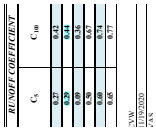
0.27 0.42



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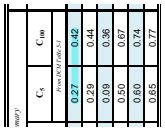
0.29 0.44

36 (4)



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	0.29	0.44
	0.09	0.36
	0.50	0.67
	0.60	0.74
	0.65	0.77

Subject:
Page Index: 36
Date: 4/2/2021 4:20:16 PM
Author: dsdrice
Color:
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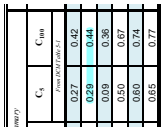
Page Label: 16

0.27 0.42



(unitless)	C_5	C_{100}
	From DCI Calc.-1	
	0.27	0.42
	0.29	0.44
	0.09	0.36
	0.50	0.67
	0.60	0.74
	0.65	0.77

Subject:
Page Index: 36
Date: 4/2/2021 4:20:21 PM
Author: dsdrice
Color:
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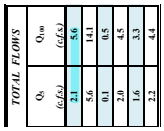
0.29 0.44



TOTAL FLOWS	Q_5 (c.f.s.)	Q_{100} (c.f.s.)
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	5.6	14.1
	0.1	0.5
	2.0	4.5
	1.6	3.3
	2.2	4.4

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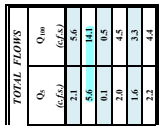
2.1 5.6



TOTAL FLOWS	Q_5 (c.f.s.)	Q_{100} (c.f.s.)
	2.1	5.6
	5.6	14.1
	0.1	0.5
	2.0	4.5
	1.6	3.3
	2.2	4.4

Subject:
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Date: 4/2/2021 4:20:43 PM
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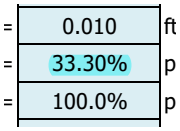
Page Label: 16

5.6 14.1

40 (2)



=	0.010	ft
=	33.30%	p
=	100.0%	p

Subject:
Page Index: 40
Date: 4/2/2021 4:21:15 PM
Author: dsdrice
Color:
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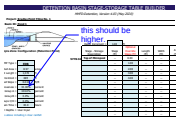
Space:
Page Label: 20

33.30%



Subject: Callout
Page Index: 40
Date: 4/2/2021 4:22:00 PM
Author: dsdrice
Color:
Layer:
Space:
Page Label: 20

this should be higher.

43 (1)

Subject: Text Box
Page Index: 43
Date: 4/5/2021 11:33:28 AM
Author: dsdrice
Color:
Layer:
Space:
Page Label: 23

Provide roadside ditch and downstream conveyance calculations.

44 (2)

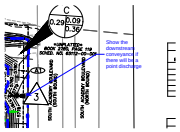
Subject: Callout
Page Index: 44
Date: 4/2/2021 4:24:21 PM
Author: dsdrice
Color:
Layer:
Space:
Page Label: [1] EDM

This is a wide swale - developed release needs to approximate this condition unless a drainage easement has been obtained for the proposed point discharge.

Subject: Callout
Page Index: 44
Date: 4/5/2021 11:18:30 AM
Author: dsdrice
Color:
Layer:
Space:
Page Label: [1] EDM

Does the ditch have capacity or do flows enter the site?

46 (16)



Subject: Callout
Page Index: 46
Date: 4/2/2021 4:26:03 PM
Author: dsdrice
Color:
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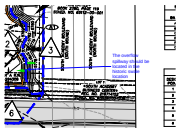
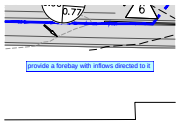
Space:
Page Label: [1] PDM

Show the downstream conveyance if there will be a point discharge



Subject: Callout
Page Index: 46
Date: 4/2/2021 4:26:50 PM
Author: dsdrice
Color:
Layer:
Space:
Page Label: [1] PDM

The overflow spillway should be located in the historic swale location



Subject: Text Box
Page Index: 46
Date: 4/2/2021 4:28:12 PM
Author: dsdrice
Color:
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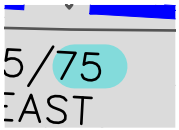
Page Label: [1] PDM

provide a forebay with inflows directed to it



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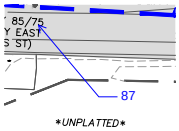
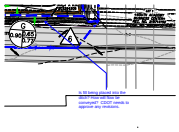


Subject: Callout
Page Index: 46
Date: 4/5/2021 11:11:33 AM
Author: dsdrice
Color:
Layer:
Space:
Page Label: [1] PDM

87



Subject: Callout
Page Index: 46
Date: 4/5/2021 11:13:52 AM
Author: dsdrice
Color:
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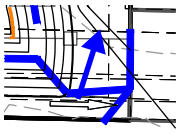
Page Label: [1] PDM

Is fill being placed into the ditch? How will flow be conveyed? CDOT needs to approve any revisions.



Subject: Arrow
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Date: 4/5/2021 11:15:35 AM
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Color:
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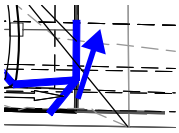
Space:
Page Label: [1] PDM



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Date: 4/5/2021 11:15:45 AM
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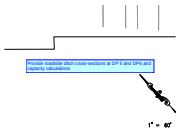

Subject: Text Box
Page Index: 46
Date: 4/5/2021 11:20:50 AM
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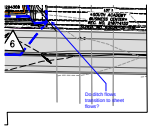
Page Label: [1] PDM

Provide roadside ditch cross-sections at DP 5 and DP6 and capacity calculations



Subject: Callout
Page Index: 46
Date: 4/5/2021 11:21:24 AM
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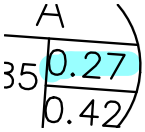
Do ditch flows transition to sheet flows?



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Page Index: 46
Date: 4/5/2021 8:37:31 AM
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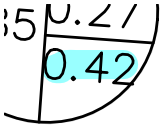
Color:
Layer:
Space:
Page Label: [1] PDM



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Page Index: 46
Date: 4/5/2021 8:37:33 AM
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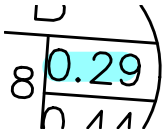

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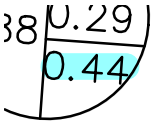

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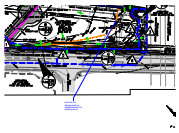

Subject: Callout
Page Index: 46
Date: 4/5/2021 8:44:57 AM
Author: dsdrice
Color:
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Page Label: [1] PDM

How will the storage area be separated from the ponding area?

Subject: Callout
Page Index: 46
Date: 4/5/2021 8:47:12 AM
Author: dsdrice
Color:
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Page Label: [1] PDM

Add the orange line to the legend